

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
18 January 2001 (18.01.2001)

PCT

(10) International Publication Number
WO 01/03958 A1

(51) International Patent Classification⁷: **B60G 17/02**, (81) Designated States (*national*): BR, BY, CA, CN, IL, IN, JP, KP, KR, RU, US, ZA.

(21) International Application Number: **PCT/PL00/00030** (84) Designated States (*regional*): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE).

(22) International Filing Date: 19 April 2000 (19.04.2000)

(25) Filing Language: English

Published:

— With international search report.

(26) Publication Language: English

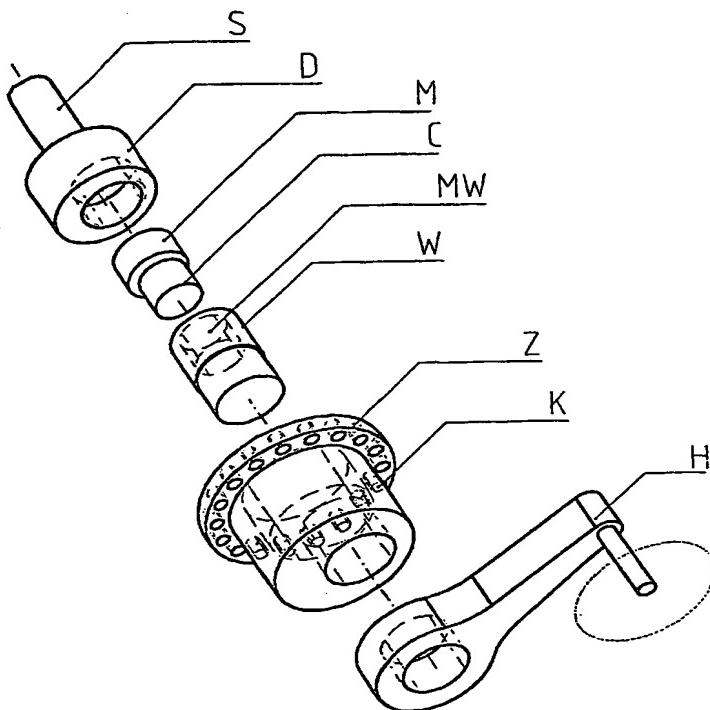
For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(30) Priority Data:
P.334331 12 July 1999 (12.07.1999) PL

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(54) Title: VEHICLE SUSPENSION SYSTEM, PARTICULARLY FOR ROAD AND OFF-ROAD VEHICLES



(57) Abstract: This invention relates to vehicle suspension, destined particularly for heavy road and off-road vehicles, and first of all for those whose weight and dynamical loads vary within a broad range during the operating process, and is particularly concerned with improvements to the suspension characteristic, i.e. suspension stiffness as a function of axle deflection. The suspension according to the invention is distinguished for the fact that it comprises at least one flat or spatial four-link mechanism (K), (M), (W) and (D) three kinematic pairs of which are rotational ones and one is a rotational or a sliding one, wherein two links of said mechanism are made in the form of eccentric and one link is made in the form of eccentric or slider, wherein one of the links of said mechanism is coupled with vehicle's wheel, another link of the mechanism is coupled with a spring (S), and the whole mechanism is mounted to the vehicle frame using yet another of its links, to get a non-linear differentiable dependence of the suspension stiffness on the vehicle wheel deflection.

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